

trail master



SUSPENSION

MATCHED SYSTEMS. UNMATCHED TECHNOLOGY.

3651 N. Hwy. 89 • Chino Valley, AZ 86323

(928) 636-7080

'07 - '12 JEEP WRANGLER (JK) 4.5" SUSPENSION LIFT KIT INSTALLATION INSTRUCTIONS FLEX JOINT CONTROL ARMS

J4614 (No Driveshafts)

J4615 (W/ Driveshafts 2 Dr only)

J4616 (W/ Driveshafts 4 Dr only)

**REFER TO INSTRUCTIONS PACKAGED WITH
DRIVESHAFTS FOR PROPER INSTALLATION**

-Drive Shafts Are Only Available for 07-11 JK's-

2012 Model Requires Exhaust Modifications

⚠ WARNING

Installation of a Performance Automotive Group suspension lift kit will change the vehicle's center of gravity and handling characteristics both on- and off-road. You must drive the vehicle safely! Extreme care must be taken to prevent vehicle rollover or loss of control, which could result in serious injury or death. Avoid sudden sharp turns or abrupt maneuvers and always make sure all vehicle occupants have their seat belts fastened.

⚠ WARNING

Before you install this kit, read and understand all instructions, warnings, cautions, and notes in this instruction sheet and in the vehicle owner's manual.

⚠ CAUTION

Proper installation of this kit requires knowledge of the factory recommended procedures for removal and installation of original equipment components. We recommend that the factory shop manual and any special tools needed to service your vehicle be on hand during the installation. Installation of this kit without proper knowledge of the factory recommended procedures may affect the performance of these components and the safety of the vehicle. We strongly recommend that a certified mechanic familiar with the installation of similar components install this kit.

⚠ WARNING

Always wear eye protection when operating power tools.

⚠ WARNING

This kit should only be installed on a vehicle that is in good working condition. Before you install the kit, thoroughly inspect the vehicle for corrosion or deformation of the sheet metal. If the vehicle is suspected to have been in a collision or misused, do not install this kit. Off-road use of your vehicle with this kit installed may increase the stress applied to the factory body mounts. Failure to observe this warning may result in serious personal injury and/or severe damage to your vehicle.

⚠ WARNING

Many states and municipalities have laws restricting bumper heights and vehicle lifts. Consult state and local laws to determine if the changes you intend to make to the vehicle comply with the law.

⚠ WARNING

The installation of larger tires may reduce the effectiveness of the braking system.

⚠ WARNING

Before you install this kit, block the vehicle tires to prevent the vehicle from rolling.

⚠ WARNING

We strongly recommend using the Performance Automotive Group shocks that were engineered to be used with this system. If you use other shocks, they must match the full extended and full collapsed lengths of the Performance Automotive Group units exactly. The use of longer or shorter shocks than recommended may cause damage to the vehicle suspension and could result in sudden loss of control of the vehicle and personal injury. Contact Performance Automotive Group for the lengths of the front and rear shocks that must be used with this suspension system.

NOTE

Performance Automotive Group recommends using the Loctite® on the threads of all kit nuts and bolts unless specified otherwise in these instructions.

NOTE

Installation of a suspension lift will change the driveline angles which may cause a noticeable vibration in the vehicle. See the troubleshooting section at the end of these instructions.

⚠ WARNING

The suspension travel on the Jeep is limited by the shocks. The use of shocks other than those specified for this type of lift may allow for greater suspension travel causing adverse effects or vehicle component damage.

⚠ WARNING

DO NOT combine suspension, body, or other lift devices. Use of vehicle with combined lifts may result in unsafe and/or unexpected handling characteristics.

Before Starting Installation

⚠ WARNING

Factory wheels will no longer fit with out 1.25" or larger wheel spacers. Trail master recommends that you use 4.5" backspace wheels or less with this kit. This will allow extra clearance between the wheels the control arms.

1. Carefully read all warnings and instructions completely before beginning.
2. Verify all parts have been received in this kit by checking the parts list at the end of this document.

NOTE

If parts are missing from kit, please be prepared to provide the following information:

1. **Name** of purchase location
2. **Bar Code** on side of box
3. **Date** above bar code
4. **Date** inside box cover
5. **Inspector #** from inside box cover

3. **Only install this kit on the vehicle for which it is specified.** If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (928) 636-3175.
4. Special tools and parts needed:
 - a. Standard & Metric Mechanics tool set.
 - b. 1/2", 7/16" & 3/8" drill bit
 - c. Grease gun (Track bar bushing)
5. Park vehicle on a clean, dry, flat, level surface and block tires so vehicle cannot roll in either direction. Set steering wheel and wheels straight ahead.

NOTE

Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the factory service manual. When re-assembling the vehicle it is recommended by the vehicle manufacturer that certain fasteners are replaced in order to maintain proper retention characteristics. This system may not include all replacement hardware as recommended by the factory service manual. Additional replacement hardware should be obtained prior to installation of this system to meet the requirements of the factory service manual.

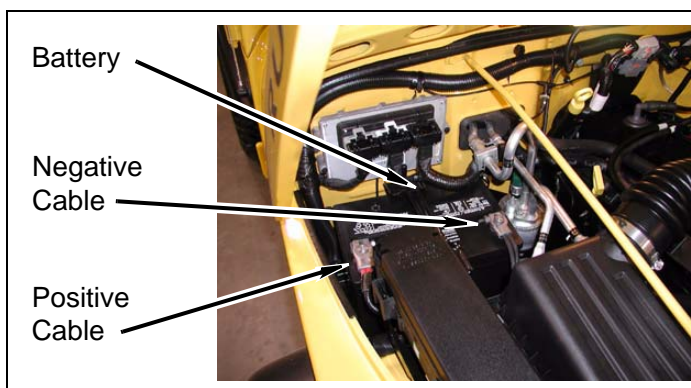
Torque Specifications

See factory service manual for torque values when re-using OE fasteners.

<u>Bolt Size</u>	<u>Grade 5 (ft.-lbs.)</u>	<u>Grade 8 (ft.-lbs.)</u>
1/4"-20	10	10
1/4"-28	10	12.5
5/16"-18	17	22.5
5/16"-24	20	25
3/8"-16	30	40
3/8"-24	35	45
7/16"-14	50	65
7/16"-20	55	70
1/2"-13	75	100
1/2"-13 (Carriage Bolt)	38	(Grade 2 Only) N/A
1/2"-20	55	70
9/16"-12	105	135
9/16"-18	115	150
5/8"-11	150	195
5/8"-18	160	210
3/4"-16	175	225

Engine Compartment

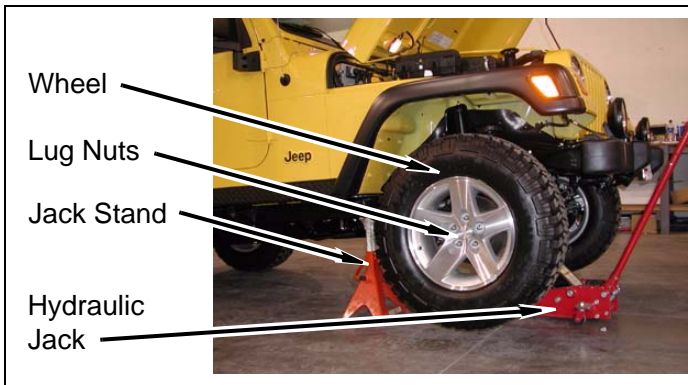
1. Disconnect both battery cables. Disconnect negative cable first, then positive cable.



Prepare to Install Front Suspension

Front Suspension

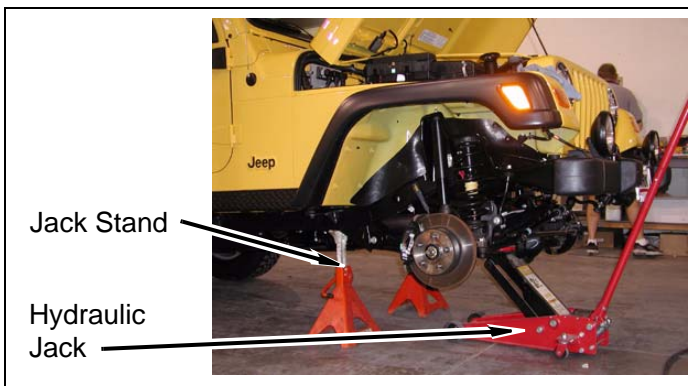
1. Loosen, but do not remove, lug nuts on each front wheel.
2. Using a hydraulic jack, slowly lift front axle until front tires are 3-5" off ground. Position jack stands under frame behind lower control arm perches. Lower vehicle onto jack stands while maintaining hydraulic jack pressure underneath front axle.



⚠ WARNING

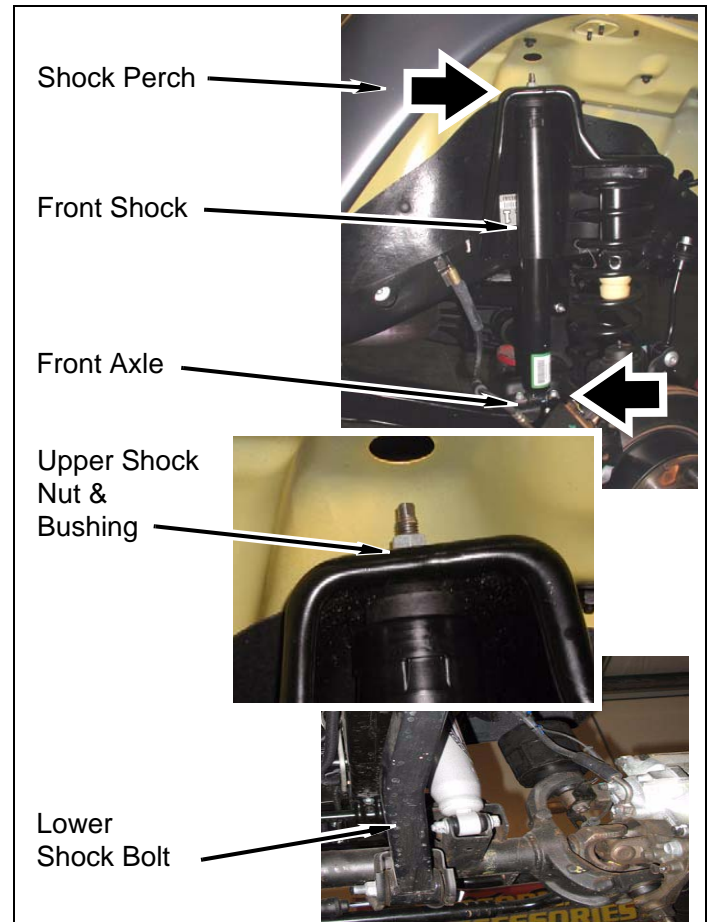
Use extreme caution when lifting vehicle from ground. To prevent serious personal injury, ensure the lifting device is securely placed.

3. Remove lug nuts and front wheels from vehicle.



4. Front shock absorbers

- a. Remove lower shock mounting bolts.

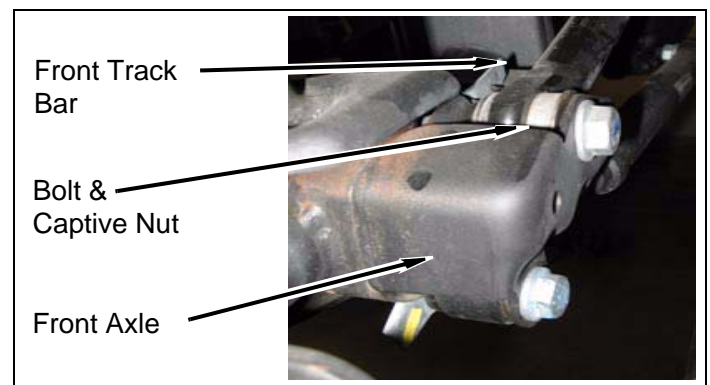


- b. Remove two upper shock nuts, four washers and two bushings from perch.

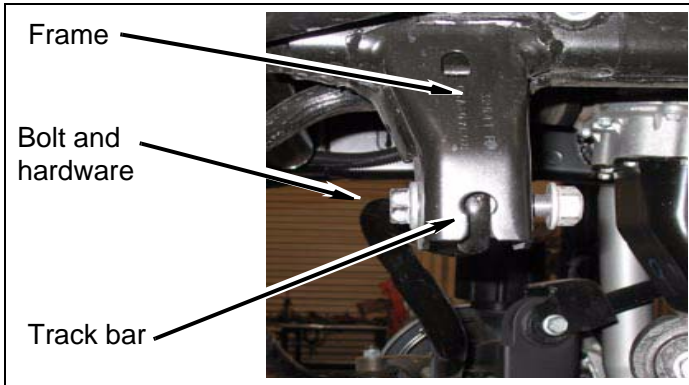
- c. Remove two shocks from perch and axle.

5. Remove track bar

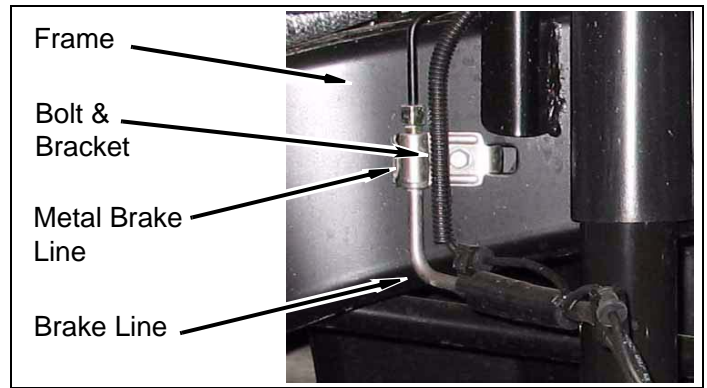
- a. Remove bolt and captive nut from front axle.



- b. Remove bolt and hardware securing track bar to frame mount on drivers side and remove track bar from vehicle.

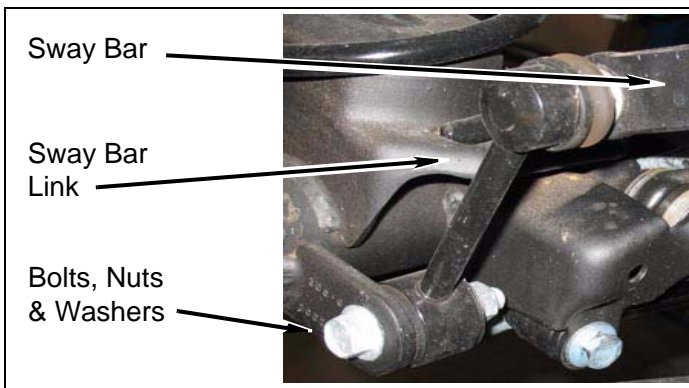


- c. Disconnect driver side metal brake line from bracket and brake line from frame rail.



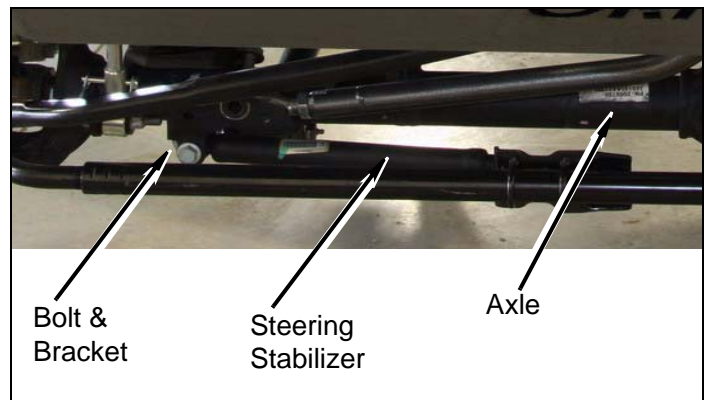
6. Sway bar links

- a. Remove lower nut & bolt from sway bar link.
- b. Remove nut securing upper joint of sway bar link to sway bar and remove link. Keep link to reinstall at rear of vehicle later.



- d. Remove bolt, brake line and bracket from frame rail.

- e. Remove steering stabilizer from original mount on axle, also loosen both u-bolts securing stabilizer to tie rod..

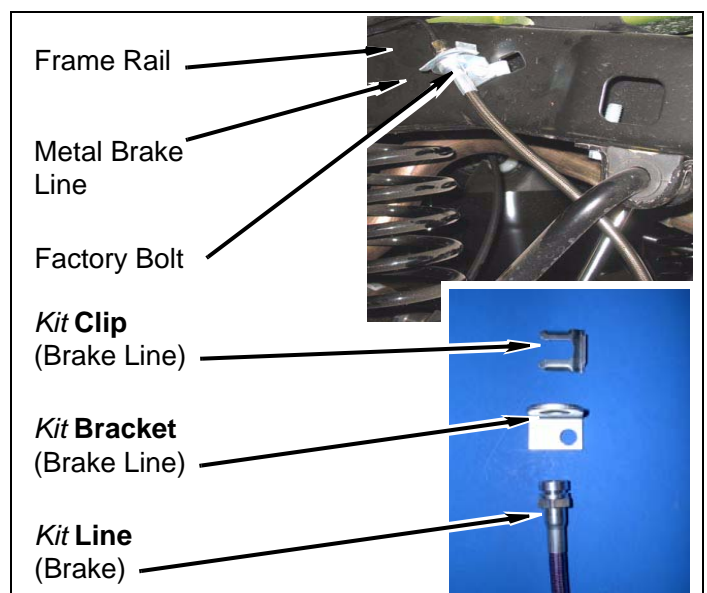
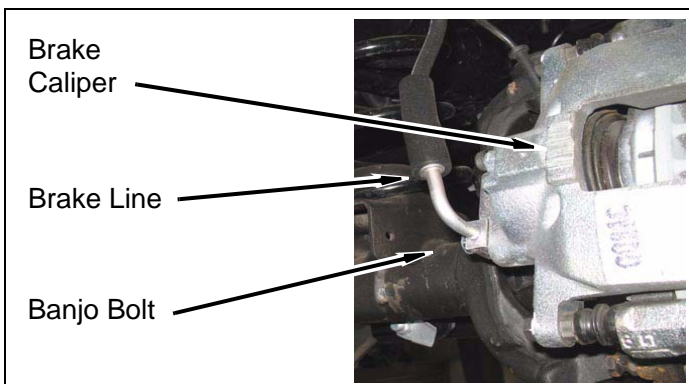


- f. Install *kit bracket* (Brake line **BHBAG903**) onto driver side frame rail with factory bolt. (**Note: Front** brake lines are 25.5" long. **Rear** brake lines are 22.5" long.)

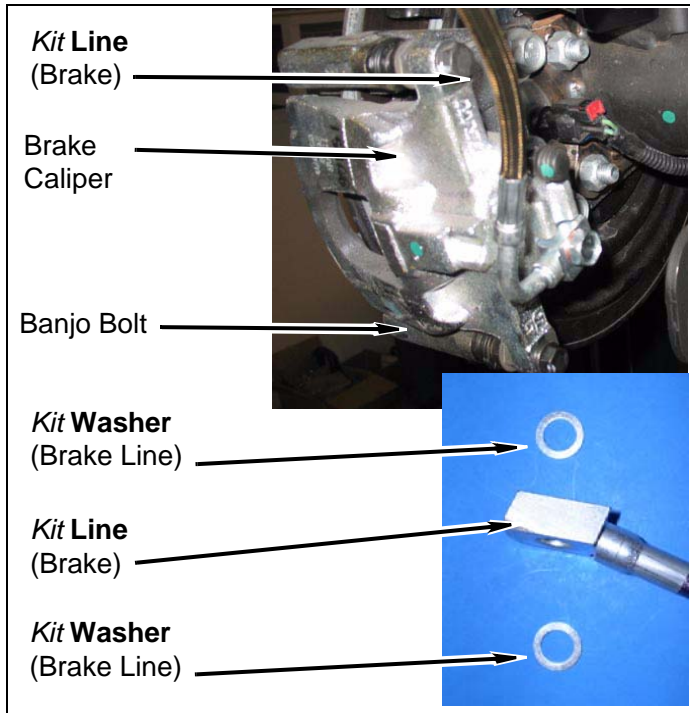
7. Remove four bolts from front drive shaft flange.

8. Front brake lines

- a. Place drip pan beneath driver side front caliper.
- b. Remove banjo bolt from brake hose and brake caliper.



- g. Install **kit line** (brake) onto metal brake line and **kit bracket** (brake line) with **kit clip** (brake line).
- h. Install banjo bolt, **kit line** (brake) and two **kit washers** (brake line) onto driver side brake caliper.



- i. Repeat steps above for passenger side brake line and caliper.
9. Remove skidplate secured with three bolts under transmission located right behind front lower control arm mounts.
10. Using jack carefully lower front axle to remove front coil springs.

Install Front Suspension

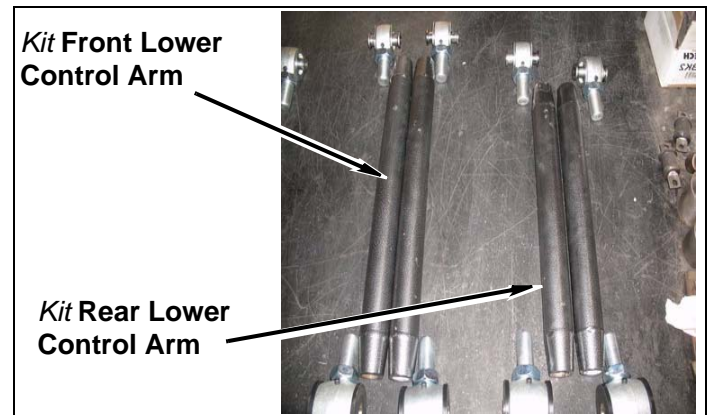
Underside of Vehicle

1. Identify and Assembly **kit Lower control arms**

- a. **Kit lower control arms** are the larger diameter (**1.75"**) of the two sizes in the kit. The **kit front lower control arms** are the longer two out of the larger diameter ones to choose from.
- b. Thread one **kit flex joint** into the end of each of the larger diameter **kit lower control arms** along with a **kit bushing end assembly**.
- c. Adjust **kit front lower control arms** equally to 23-3/8" from hole center to hole center.
- d. Adjust **kit rear lower control arms** equally to 20-7/8" from hole center to hole center.

NOTE

Measurements are to be used as a starting point. Fine tuning of pinion angle and caster measurements should be done during alignment after install is complete.



2. Identify and Assembly **kit Upper control arms**

- a. **Kit Upper control arms** are the smaller diameter (**1.5"**) of the two sizes in the kit. The **kit front upper control arms** have the bracket end welded to them.
- b. Thread one **kit flex joint** into the end of each of the smaller diameter **kit upper control arms**.
- c. Adjust **kit front upper control arms** equally to 19-3/16" from hole center to hole center.

3. Adjust **kit rear upper control arms** equally to 18-5/8" from hole center to hole center.

NOTE

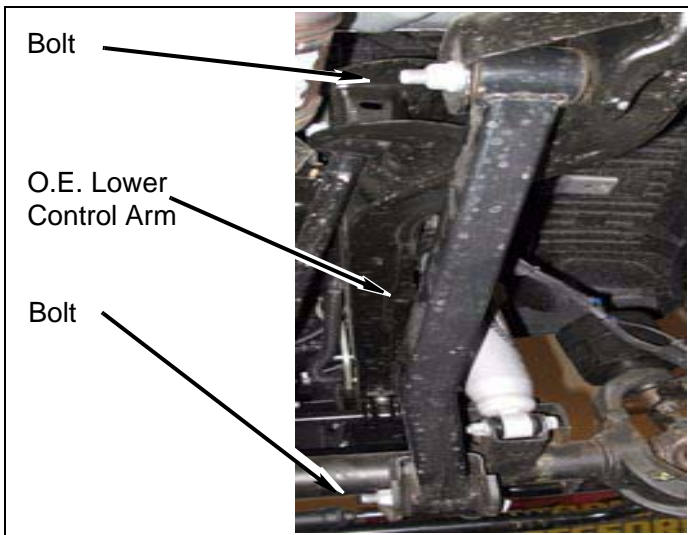
The **Flex Joints** are unique when it comes to service. We **do not** use or recommend grease! Grease attracts more dirt and debris than it is worth while doing more harm to the joint itself. Our **Flex Joints** are also too tight for grease which is designed to be used in flow through application. We simply recommend removing the service screw, putting in a few drops of 3 and 1 oil and then replacing the service screw everytime you perform an oil change.

NOTE

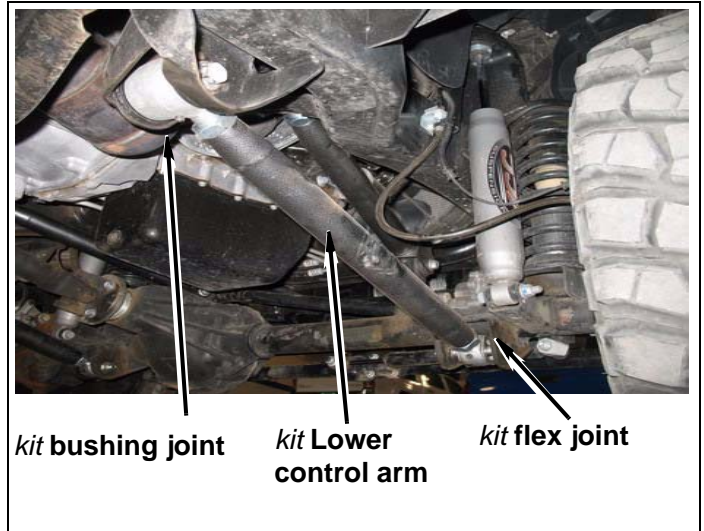
Measurements are to be used as a starting point. Fine tuning of pinion angle and caster measurements should be done during alignment after install is complete.

4. Install front **kit lower control arms**.

- a. Remove two bolts securing Driver's side O.E. front lower control arm.



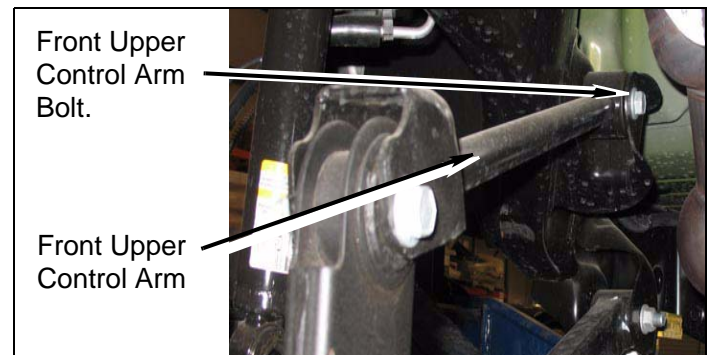
- b. Install **kit lower control arm** with flex joint mounting at differential. Secure using O.E. hardware. Do not torque at this time.



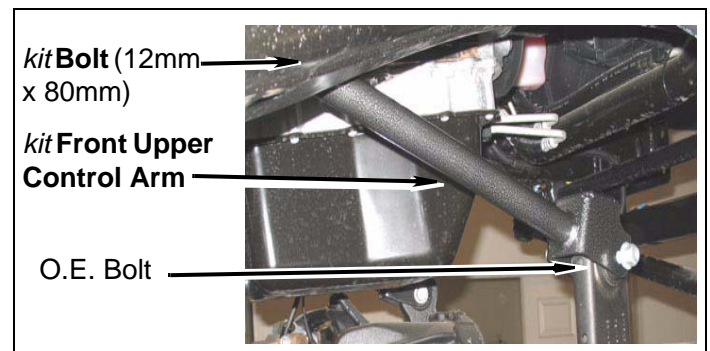
- c. Repeat on passenger side of vehicle.

5. Install front **kit upper control arms**.

- a. Remove two bolts securing Passenger's side O.E. front upper control arm. (**Note:** You may remove exhaust pipe or cut head of bolt to remove upper frame bolt.)



- b. Install **kit front upper control arms** using O.E. hardware. (**Note:** If you have cut the head of the upper passenger side bolt you can use the provided kit bolt. 12mm x 80mm in **J4614BAG1**)



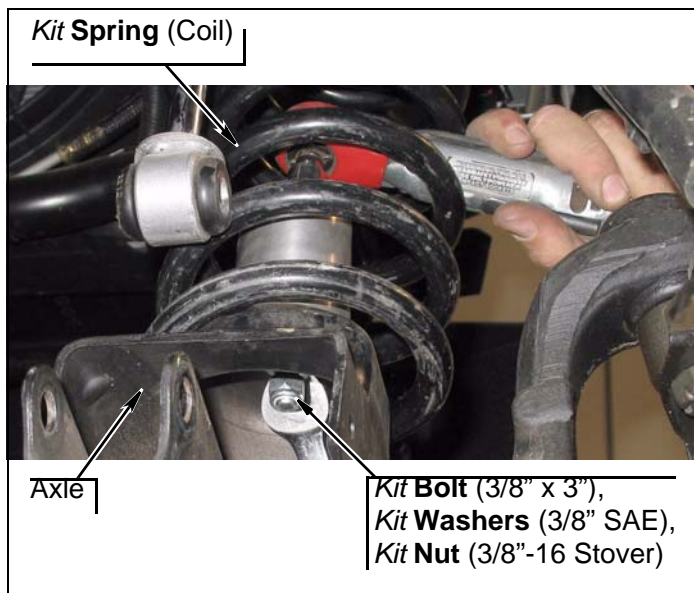
6. Install **kit front bumpstop spacers**.

7. Drill 3/8" hole in center of raised lower spring perch on each side of front axle.

- a. Position two **kit spacers** (bumpstop, front) into two **kit springs** (coil) and install two **kit springs** (coil) onto axle with ends of **kit springs** against stops.



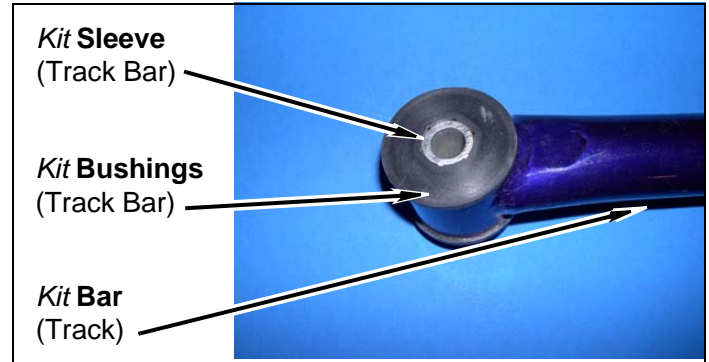
- b. Install two **kit spacers** (bumpstop, front) onto axle with two **kit bolts** (3/8" x 3"), four **kit washers** (3/8") and two **kit nuts** (3/8") (**J4614BAG1**).



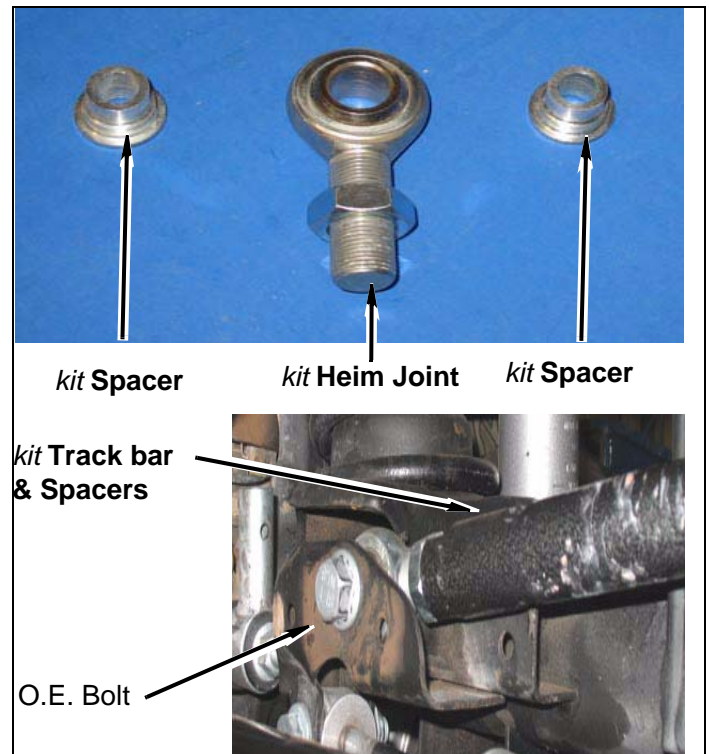
8. Install **kit coil springs** into position and raise axle to hold them in place.

9. Front **kit track bar installation**.

- a. Install two **kit bushings** (track bar) and **kit sleeve** (track bar) into **kit bar** (track). (**J4611BAG2**)



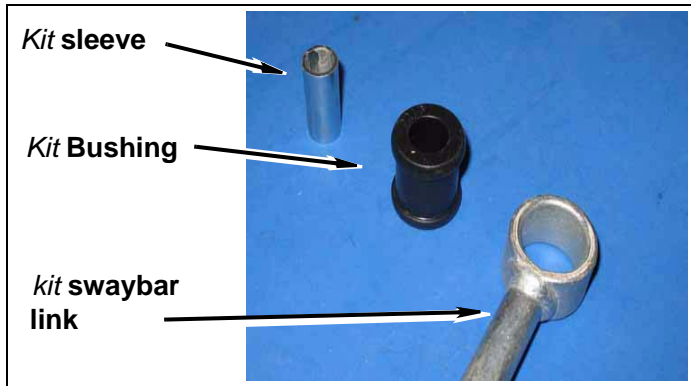
- b. Thread **kit joint** (heim) into track bar with **kit nut** (3/4" jam). Install Heim joint end of **kit track bar** into passenger side of front differential with two **kit spacer**. Use O.E. bolt to secure. (**J4611BAG2**)



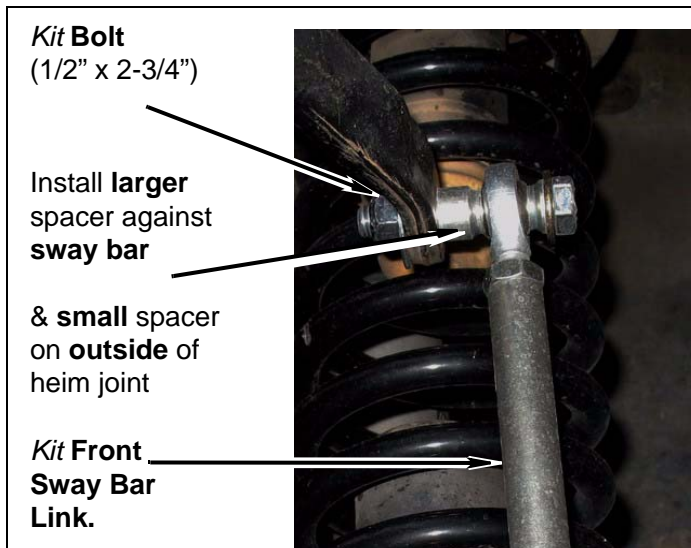
- c. Zip tie opposite end of **kit Track bar** to frame. It will be installed once vehicle is on the ground. (**Note:** Eye to eye length may be set to 32.75" as a starting point. Axle will have to be centered before alignment is completed.)

10. Install **kit front sway bar links**

- a. Install four **kit bushings** onto four **kit front sway bar link** halves.
- b. Install two **kit sleeves** into four **kit front sway bar link** halves.

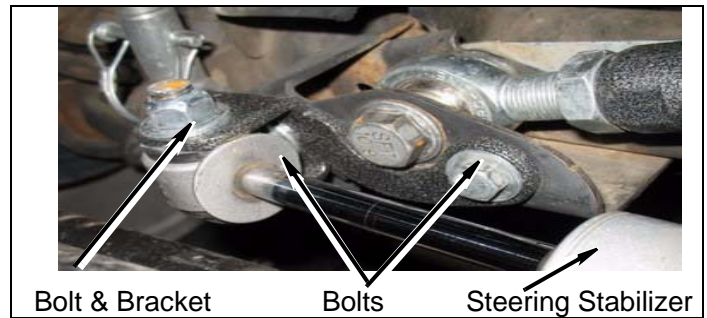


- c. Install short half of **kit front sway bar link** onto axle using OE hardware. (**JKD4614**)
- d. Install long half of **kit front sway bar link** onto sway bar end using **kit bolt** (1/2" x 2-3/4"), large and small spacers along with the **hardware**. (**JKD4614**). (**Note:** Sway bar may need to be drilled out with a 1/2" drill bit for proper fitment of hardware provided.)



- e. Do not tighten hardware at this time.
- f. Install **kit steering stabilizer bracket** using **kit** (3/8") hardware. Install steering stabilizer using **kit** (1/2") hardware. **Flip** OE steering stabilizer bracket (On tie rod) so that the U-bolts are no longer under the steering stabilizer. (**JKS4614**)
- g. Adjust stabilizer to proper length and tighten kit hardware. (**Note:** Check for binding & adjust)

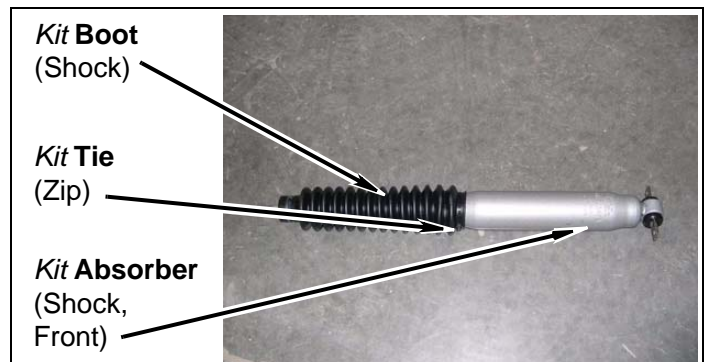
- h. **Note:** Torque **kit hardware** (1/2-13 2 1/2" Carriage Bolt) to 38 ft lbs.



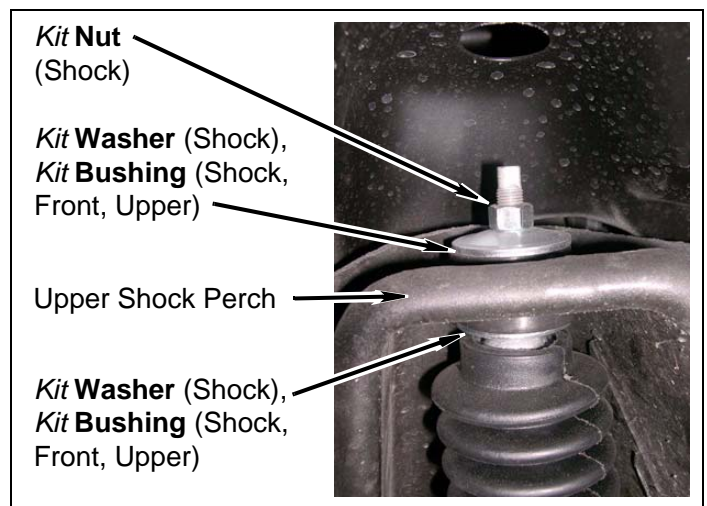
11. Reinstall four bolts into front drive shaft flange.

12. Install **kit front shocks**.

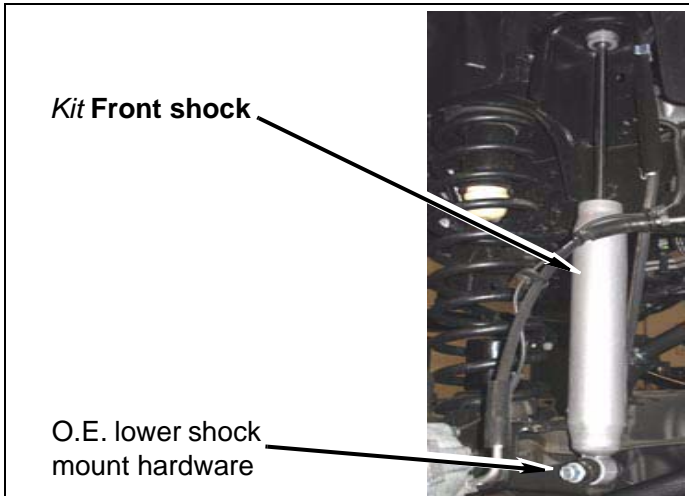
- a. Install two **kit bushings & sleeves** into **front shocks**.
- b. Install two **kit boots** (shock) onto two **kit absorbers** (shock, front) with two **kit ties** (zip).



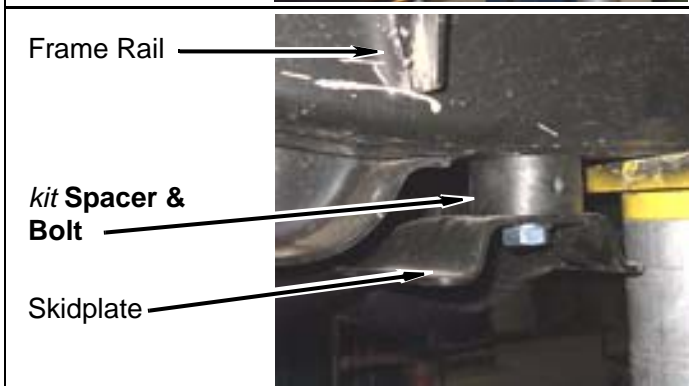
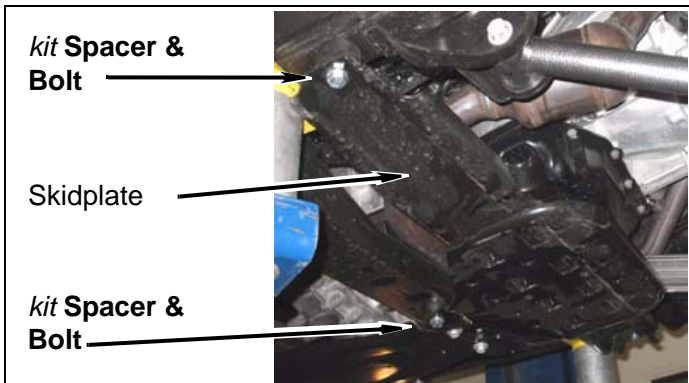
- c. Install two **kit absorbers** (shock, front) into upper shock perches with four **kit washers** (shock), four **kit bushings** (shock, front, upper) and two **kit nuts** (shock, front).



- d. Line up **kit front shock** with lower shock mount and raise differential till holes align. Secure using OE hardware.



13. **2007-2010 Models:** Reinstall Transmission skidplate using three **kit spacers & bolts** (12mm x 60mm). (**J4614BAG1**)

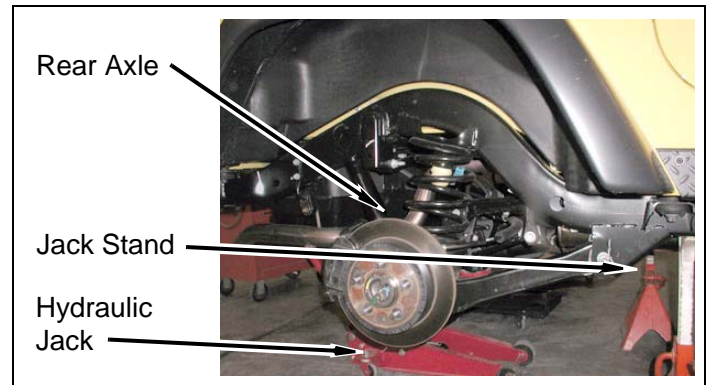


14. Install front wheels and lug nuts.
15. Install front Driveshaft if working with J4615SSV or J4616SSV. Refer to instructions supplied with driveshaft.
16. Using hydraulic jack, raise front of vehicle and remove jack stands. Lower front of vehicle onto ground and torque lug nuts to factory specification.

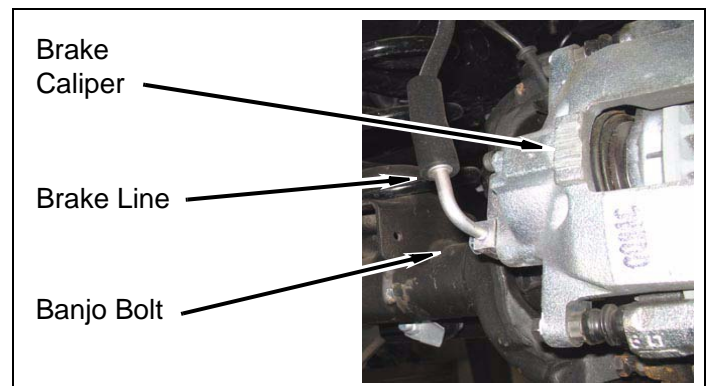
Prepare to Install Rear Suspension

Rear Suspension

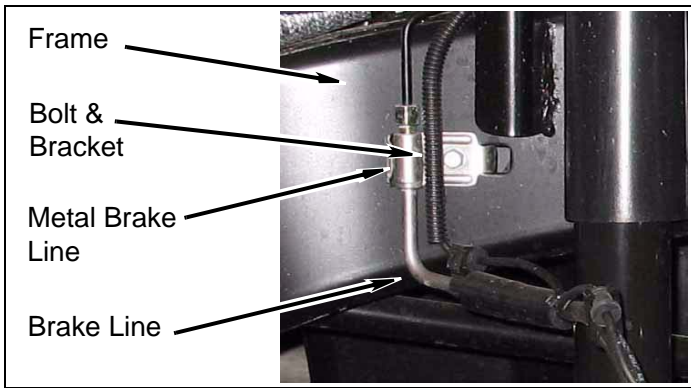
1. Loosen, but do not remove, lug nuts on each two rear wheels.
2. Using a hydraulic jack under rear differential, slowly lift rear axle until rear tires are 3-5" off ground. Position jack stands under frame just forward of lower control arm perches. Lower vehicle onto jack stands while maintaining hydraulic jack pressure underneath rear axle.



3. Remove lug nuts and rear wheels.
4. Rear brake lines
 - a. Place drip pan beneath driver side rear brake caliper.
 - b. Remove banjo bolt from brake hose and brake caliper.

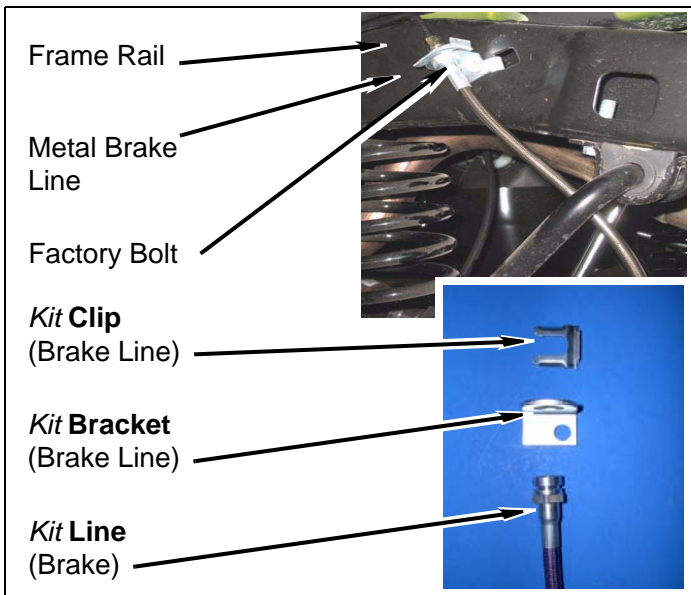


- c. Disconnect driver side metal brake line from bracket and brake line from frame rail.



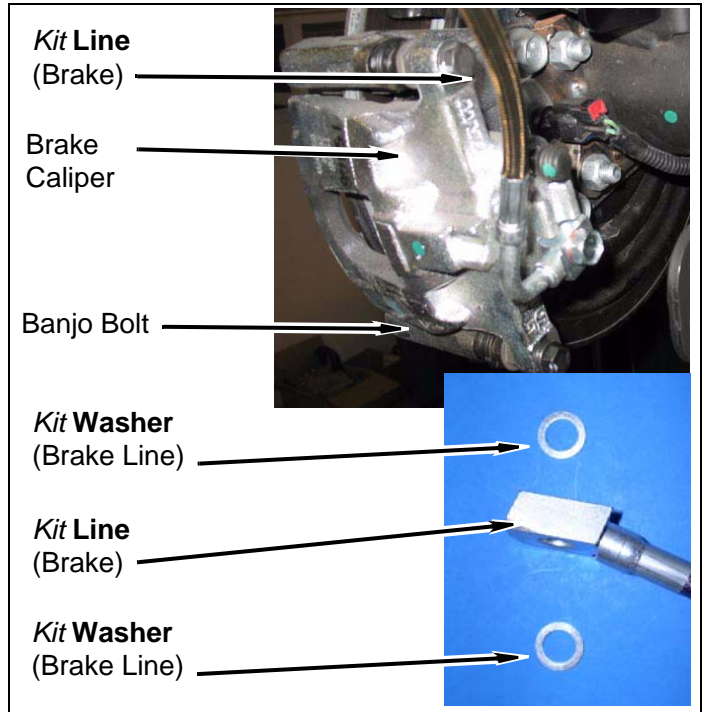
- d. Remove bolt, brake line and bracket from frame rail.

- e. Install **kit bracket** (Brake line **BHBAG903**) onto driver side frame rail with factory bolt. (**Note:** **Front** brake lines are 25.5" long. **Rear** brake lines are 22.5" long.)



- f. Install **kit line** (brake) onto metal brake line and **kit bracket** (brake line) with **kit clip** (brake line). (**Note:** You may also leave brake line disconnected from frame at this time. This will help you install the rear coils if you do not have a coil spring compressor to install the rear coils.)

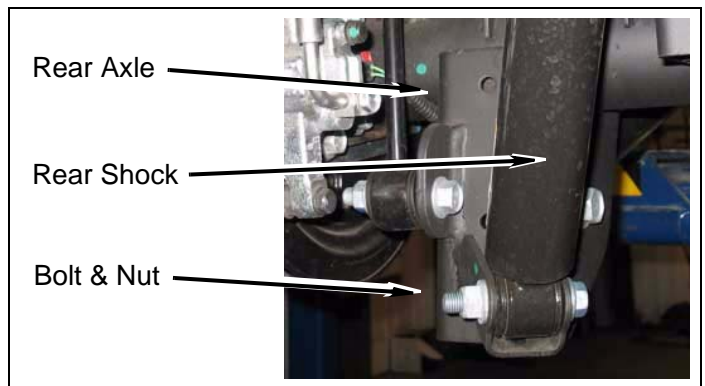
- g. Install banjo bolt, **kit line** (brake) and two **kit washers** (brake line) onto driver side brake caliper.



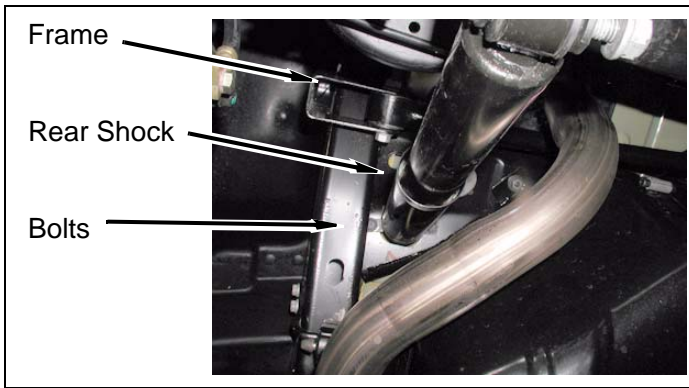
5. Repeat steps above for passenger side brake line and caliper.

6. Shock absorbers

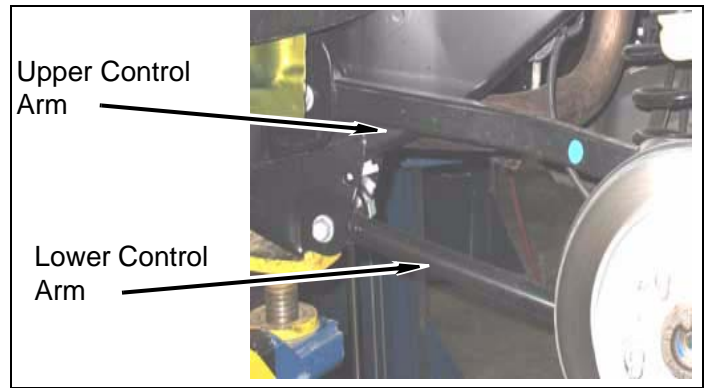
- a. Remove lower mounting bolt on both rear shock at axle housing.



- b. Remove two upper bolts from both rear shocks and remove.

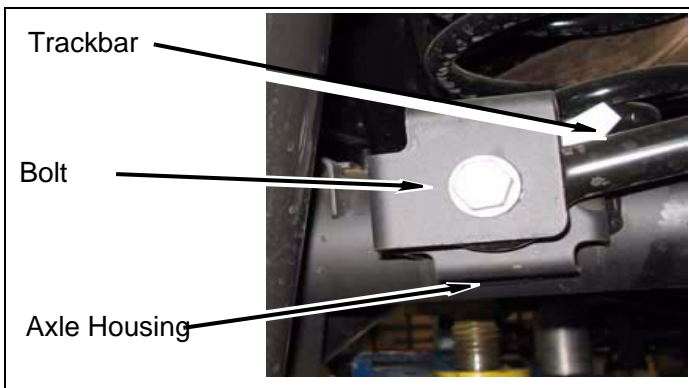


- a. Remove OE upper control arms on driver & passenger side of vehicle. (**Note:** Support axle.)



7. Remove rear track bar

- a. Remove bolt and captive nut securing track bar to axle. .



⚠ WARNING

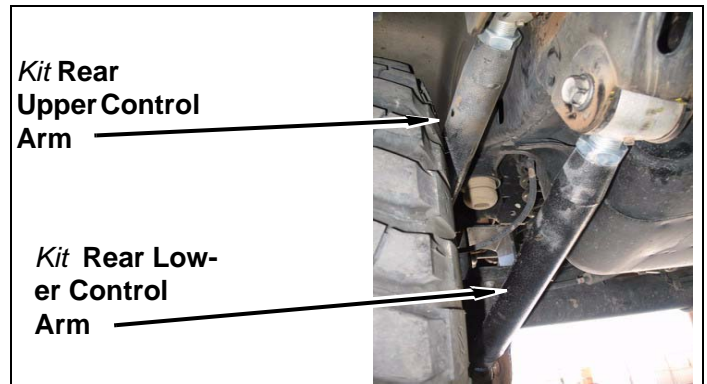
Compressed coil springs can expand violently causing serious personal injury. Before removing the coil springs, lower the axle housing as far as possible to allow the coil springs to expand. Use caution when using coil spring compressors.

8. Carefully lower axle until rear coil springs are loose and remove from vehicle.

⚠ NOTE

Refer to first 2 steps in front installation for identification of control arm lengths and placement if needed.

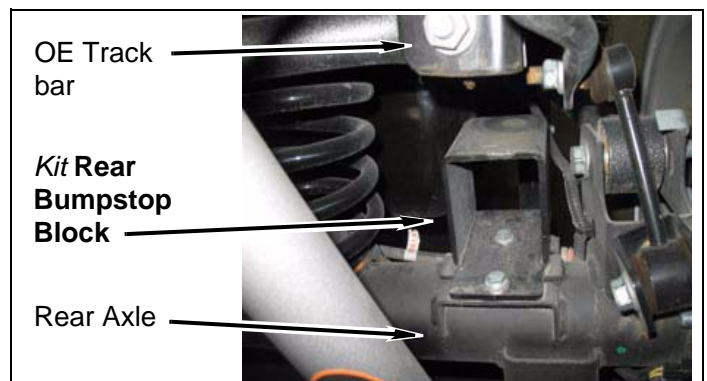
- b. Install *kit rear upper control arms*. Flex Joint goes to axle end. .



- c. Repeat to lower control arms. Use OE hardware & tighten all control arm bolts at this time.

2. Install *kit rear bumpstop blocks*.

- a. Install *kit rear bumpstop blocks* onto rear bumpstop contact pad located on axle next to spring. Tab on *kit rear bumpstop blocks* faces rearward on vehicle. Secure using *kit bolt* (5/16 x 3/4) & hardware. (J4614BAG1)



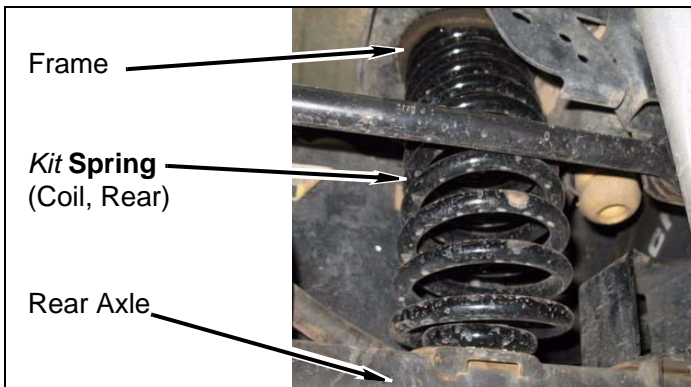
Install Rear Suspension

Rear Suspension

1. Install *kit Control Arms*.

b. Repeat on opposite side of vehicle.

3. Install two **kit springs** (coil, rear) tiny pig tail wrap goes to bottom.

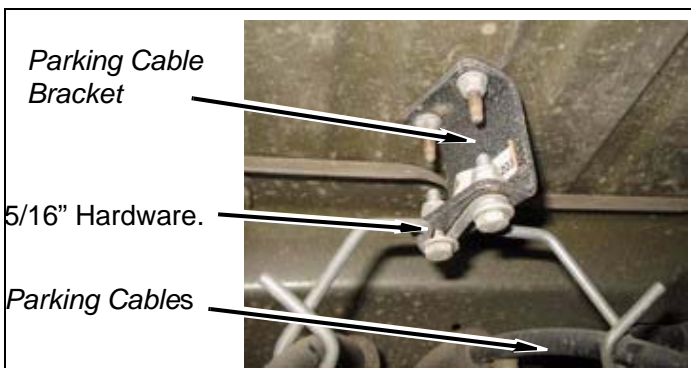


NOTE

trail master recommends using rear JK coil spring perch **SP0400** (***Welding required***) for proper spring perch clocking after your pinion angle is adjusted to the proper degree. Replacing your coil spring perches will eliminate common rear spring arching. **Sold separately.**

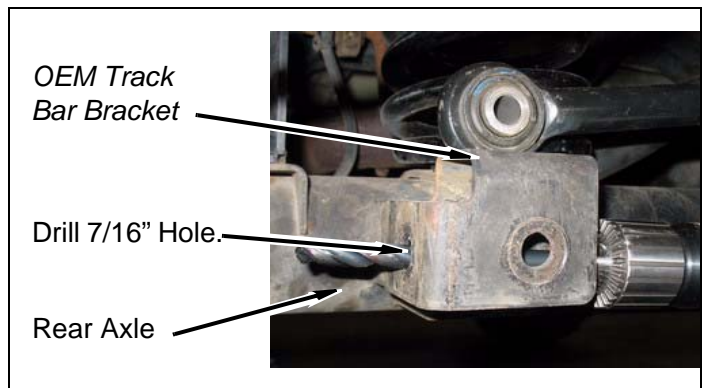
4. Install **kit Rear park cable bracket**

- a. Use **OE** hardware to bolt the kit bracket to the body. Use **kit** hardware (5/16") to bolt parking cables to kit bracket. (**J4614BAG1**)



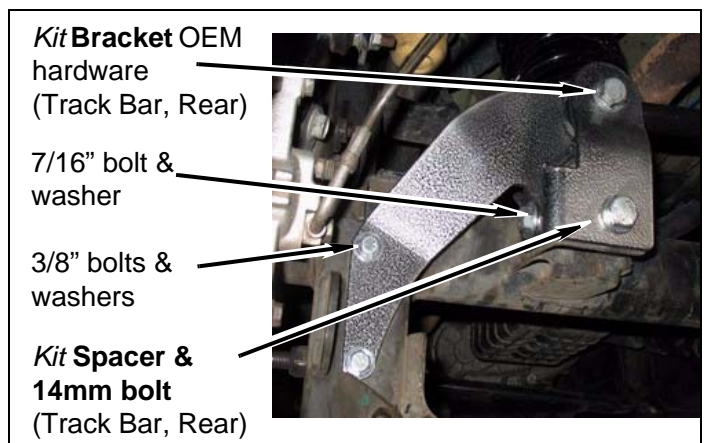
5. Install **kit Rear track bar bracket**

- a. Using **kit track bar bracket** as template, drill a 7/16" hole into factory track bar mount.



- b. Install **kit Rear track bar bracket** using supplies hardware and spacer into stock track bar & control arm mount location. (**J4611BAG2**)

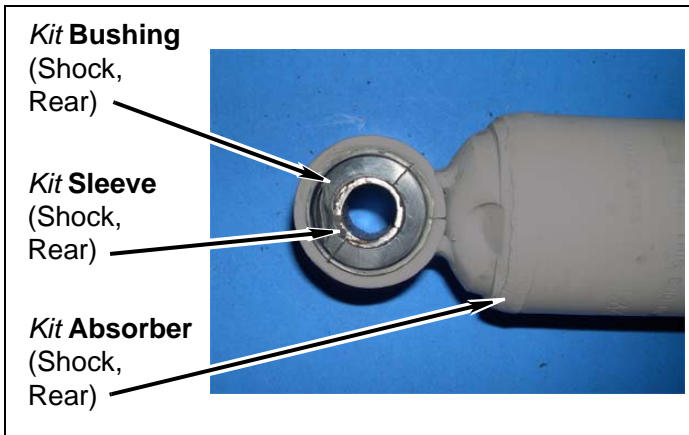
- c. Install **OEM track bar** into **kit** bracket on rear axle using OE hardware to secure it.



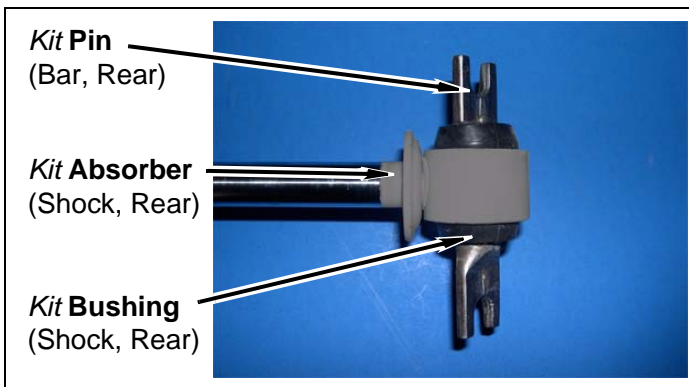
- d. Zip tie frame end of **kit rear track bar** to frame mount for now. Track bar will be installed once vehicle is lowered to ground.

6. Install **kit rear shocks**.

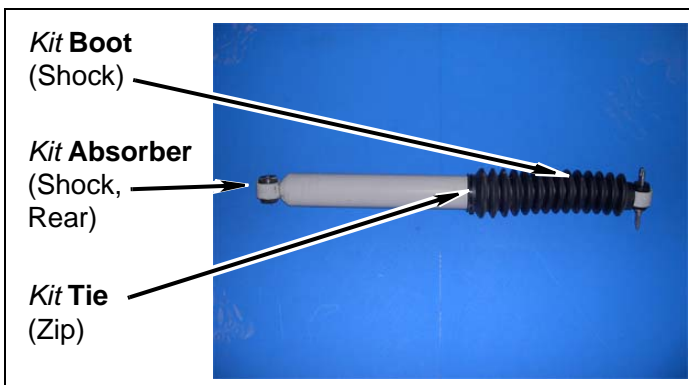
- a. Install two **kit bushings** (shock, rear) and two **kit sleeves** (shock, rear) into body end of two **kit absorbers** (shock, rear).



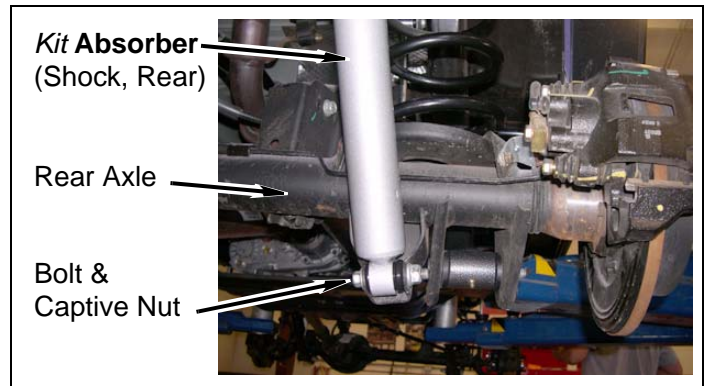
- b. Install two **kit bushings** (shock, rear) and two **kit pins** (bar, rear) into piston eyelet of two **kit absorbers** (shock, rear).



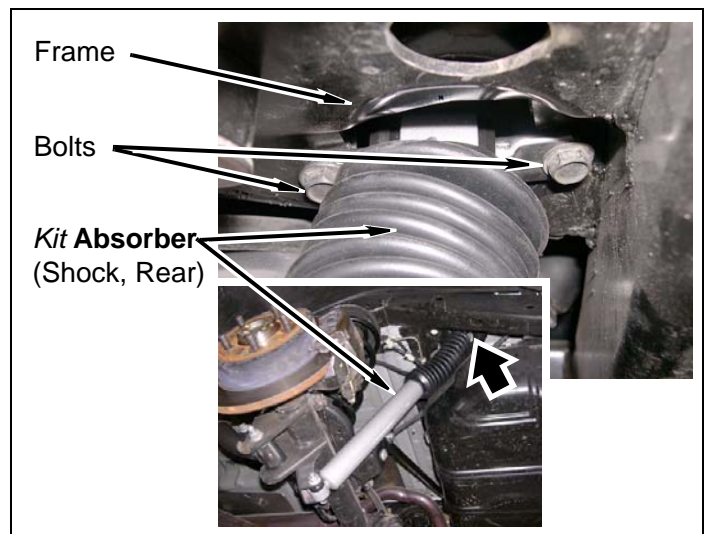
- c. Install two **kit boots** (shock) onto two **kit absorbers** (shock, rear) with two **kit ties** (zip).



- d. Install two **kit absorbers** (shock, rear) onto axle with two factory bolts and captive nuts.

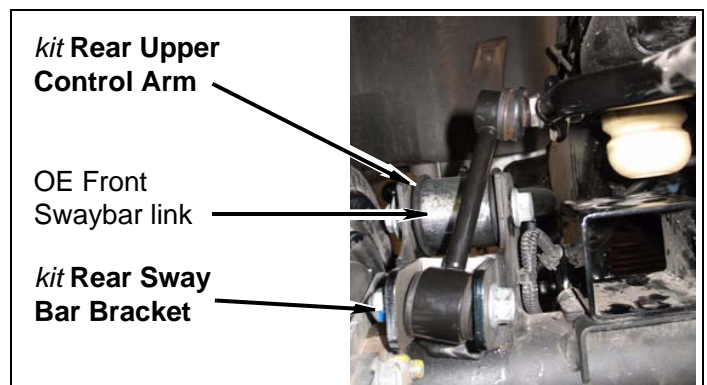


- e. Install two **kit absorbers** (shock, rear) onto frame rails with four factory bolts.



7. Rear sway bar

- a. Install **kit rear swaybar brackets** to flat plate located just below and behind the rear upper control arm axle mount. Secure using **kit bolt** (7/16" x 1") and **hardware**. (**J4614BAG1**)
- b. Install **OE front sway bar link** in place of rear sway bar link with lower going through **kit bracket** just installed.



8. Install rear wheels and lug nuts.
9. Install rear Driveshaft if working with J4615SSV or J4616SSV. Refer to instructions supplied with drive-shaft.
10. Using hydraulic jack, raise rear of vehicle and remove jack stands. Lower rear of vehicle onto ground and torque lug nuts to factory specification.

Finish Track Bar Installation Front and Rear

1. Thread front track bar in or out as needed until bolt hole at frame lines up. Secure using OE hardware.
2. Use calibrated eye to ensure that front and rear differentials are centered under vehicle.
3. Repeat at rear of vehicle and tighten.
4. Have vehicle aligned. Shop should center axles during alignment process.

After Completing Installation

Bleed brake system

⚠ WARNING

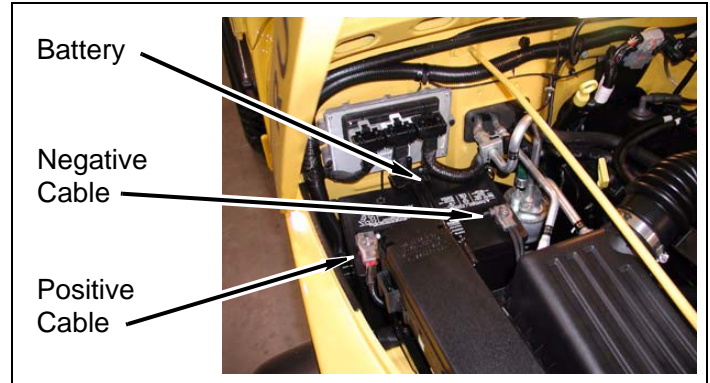
Before driving the vehicle, pump the brakes several times. If the pedal is soft or mushy, refer to the vehicle service manual and verify the brake bleeding procedures. Failure to do so may cause the brakes to malfunction, resulting in property damage or serious personal injury.

1. Verify brake fluid reservoir is full.
2. Bleed rear passenger side brake caliper at brake bleeder fitting.
3. Bleed rear driver side brake caliper at brake bleeder fitting.
4. Bleed front passenger side brake caliper at brake bleeder fitting.
5. Bleed front driver side brake caliper at bleeder fitting.

6. Verify brake fluid reservoir is full. Add brake fluid according to manufacturer's specifications.

Engine Compartment

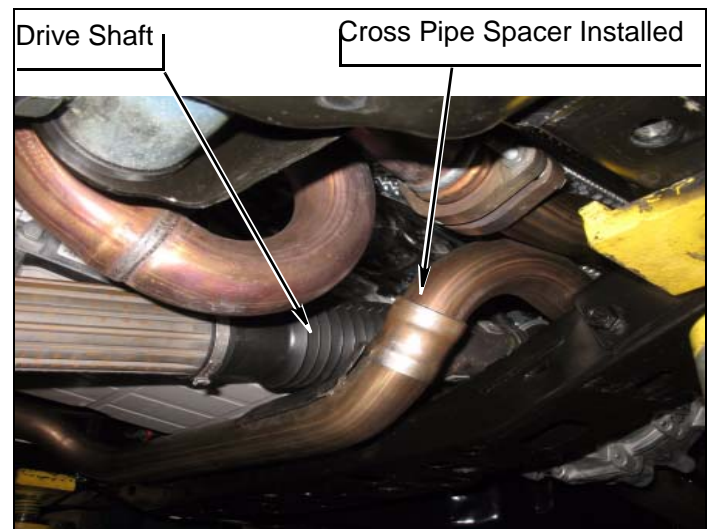
1. Connect both battery cables. Connect positive cable first, then negative cable.



Miscellaneous

1. Apply **kit label** (warning) onto dashboard in plain sight of all vehicle occupants.
2. Adjust headlights.
3. Check all fasteners to ensure they are tight.
4. Ensure all wires, hoses, cables, etc. are properly connected and there is ample slack.
5. Align vehicle to OE specifications. Retain alignment results.

****NOTE:** 2012 Models (with **3.6L** motor) will require exhaust modifications, to cross pipe, in order to clear-ance front drive shaft as shown below:



Dynamic Vehicle Check

1. Check steering and suspension in all positions to ensure that there is no bind and adequate clearance between all moving, fixed, and heated members. Check operation of clutch, brake system, and parking brake. Check operation of transmission and transfer case. Ensure there is full engagement in all gears and 4WD ranges. Check battery connections and electrical component operations. Test-drive vehicle.

⚠WARNING

Retorque all fasteners after 500 miles and after off road use. All suspension lift components should be visually inspected and fasteners retorqued during routine vehicle servicing.

⚠CAUTION

Performance Automotive Group does not recommend any particular wheel and tire combinations for use with its suspension lifts and cannot assume responsibility for the customer's choice of wheels and tires. Refer to your owner's manual for recommended tire sizes and warnings related to the use of oversized tires. Larger wheel and tire combinations increase stress and wear on steering and suspension components, which leads to increased maintenance and higher risk for component failure. Larger wheel and tire combinations also alter speedometer calibration, braking effectiveness, center of gravity, and handling characteristics. Consult an experienced local off road shop to find what wheel and tire combinations work best with your vehicle.

NOTE

All warranty information, instruction sheets, and other documents regarding the installation of this product must be retained by the vehicle owner. Information contained in the instructions and on the warranty card will be required for any warranty claims. The vehicle owner needs to understand the modifications made to the vehicle and how they affect vehicle handling and performance. Failure to provide the customer with this information can result in damage to the vehicle and severe personal injury.

- a. Acceleration vibration: vibration felt during acceleration of the vehicle and caused by the rear axle pinion angle being too high.
- b. Deceleration vibration: vibration felt during deceleration of the vehicle and caused by the rear axle pinion angle being too low.
- c. General vibration: vibration caused by rear pinion angle in relation to the transfer case output shaft.

If the vehicle experiences any of the above, they can be addressed by purchasing a camber adjustment kit (91003). The installation of this kit will provide some adjustment in the rear upper control arms to correct the pinion angle.

2. High speed shake / shimmy

- a. This is a common condition with this type of steering design. The high speed shimmy is induced by hitting a bump, with the front tires, at speeds greater than 40 miles per hour. The bump will induce a shimmy in the front axle that can be felt through the steering wheel. In order to stop the shimmy, the vehicle speed must be reduced until the shimmy resides.
- b. Common conditions that cause this shimmy are worn front suspension / steering bushings. Inspection of the upper and lower control arm bushings, track bar bushing and steering damper should be performed. The steering alignment is also important and should be set to factory specifications. Any worn parts should be replaced.

Troubleshooting

1. Once the vehicle has been lifted, some vehicle vibration may become more apparent to the driver. The reason for the vibration may be due to the angle at which the driveline operates. A suspension lift increases the operating angle of the driveline and normal vehicle vibration is amplified. Some vibration characteristics are as follows:

Accessories:

The following accessories are available:

Kit# 7108: SSV Steering Stabilizer

Qty. Description

Kit# J4614

2	Springs (front)
2	Springs (rear)
2	Shocks (front)
2	Shocks (rear)
2	Control Arm (Front Upper)
2	Control Arm (Front Lower)
2	Control Arm (Rear Upper)
2	Control Arm (Rear Lower)
1	Track Bar (Front)
1	Bracket (Rear Track Bar)
2	Bumpstop (Front)
2	Bumpstop (Rear)
2	Bracket (Rear Swaybar)
1	Bracket (Park Brake Cable)

1 J4614BAG1 (Hardware Bag)

3	Bolt (12mm-1.5 x 60mm)
1	Bolt (12mm-1.75 x 80mm)
2	Bolt (7/16 x 1)
4	Bolt (5/16 x 3/4)
2	Bolt (1/4 x 1)
5	Washer (12mm Flat)
4	Washer (7/16 Flat)
8	Washer (5/16 Flat)
4	Washer (1/4 Flat)
2	Nut (7/16 Stover)
1	Nut , (12mm Stover)
2	Nut (3/8" Flange)
4	Nut (5/16 Stover)
2	Nut (1/4" Stover)
3	Block (Tranny Spacer)

1 JKD4614 (Sway Bar Hardware Bag)

2	Bolt (12mm x 70mm)
4	Washer (12mm Flat)
2	Nut (12mm Stover)
4	Bushing
2	Sleeve
2	Wire Clip
2	Swaybar Link (Front Disconnect)
2	Mis-Alignment Spacer (Small)

2	Mis-Alignment Spacer (Large)
2	Heim Joint
2	Jam Nut
2	Pin

1 J4611BAG2 Hardware Bag. (Trackbar)

1	Bolt (M14-2.0 x 90mm)
1	Nut , (M14)
2	Washer , (M14)
1	Bolt , (7/16" x 1")
2	Bolt , (3/8" x 1")
1	Nut , (7/16")
2	Nut , (3/8")
2	Washer , (7/16")
4	Washer , (3/8")
1	Heim Joint
1	Jam Nut , 3/4"
2	Mis-Alignment Spacer
2	Bushing
1	Sleeve (3/4" x 1 656")
1	Sleeve (3/4" x 1.620")
1	Grease Fitting

1 JKS4614 (Steering Stabilizer Hardware bag)

2	Bracket (Front Steering Stabilizer)
1	Bolt (1/2 x 2 1/2 Carriage bolt) Grade 2
1	Washer (1/2" Flat)
1	Nut (1/2" Stover)
2	Bolt , (3/8" x 1")
2	Nut , (3/8")
4	Washer , (3/8")